

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A magnetic recording medium comprising:

a non-magnetic support, and provided in order on the support:

a radiation-cured layer formed by curing a layer containing a radiation curing compound by exposure to radiation, wherein the molecular weight of the radiation curing compound is 1,000 or less;

a lower layer comprising a non-magnetic powder and/or a magnetic powder dispersed in a binder; and

at least one magnetic layer comprising a ferromagnetic powder dispersed in a binder;

the binder of at least the magnetic layer comprising a binder having a glass transition temperature of 100°C to 200°C, and

the at least one magnetic layer having on the surface thereof a number of micro projections having a height of 10 to 20 nm measured by atomic force microscopy (AFM) of 5 to 1,000/100 μm^2 , and the at least one magnetic layer having a thickness of 0.05 to 1.0 μm .
2. (previously presented): The magnetic recording medium according to Claim 1, wherein the at least one magnetic layer has on the surface thereof a number of micro projections having a height of 10 to 20 nm measured by atomic force microscopy (AFM) of 5 to 200/100 μm^2 .

3. (original): The magnetic recording medium according to Claim 1, wherein the radiation curing compound has a viscosity of 1,000 mPa·s or less at 25°C.

4. (previously presented): The magnetic recording medium according to Claim 1, wherein the binder of the at least one magnetic layer comprises a polyurethane resin having a glass transition temperature of 100°C to 200°C.

5. (original): The magnetic recording medium according to Claim 4, wherein the polyurethane resin has a cyclic structure.

6. (original): The magnetic recording medium according to Claim 5, wherein the cyclic structure is an aromatic ring or a cyclohexane ring.

7. (original): The magnetic recording medium according to Claim 4, wherein the polyurethane resin has a polyol/chain extension agent/diisocyanate compound composition of 0 to 30 wt %/25 to 45 wt %/35 to 60 wt %.

8. (original): The magnetic recording medium according to Claim 1, wherein the radiation curing compound is a difunctional acrylate or methacrylate compound.

9. (original): The magnetic recording medium according to Claim 1, wherein the radiation-cured layer has a thickness of 0.1 to 1.0 μm .

10. (original): The magnetic recording medium according to Claim 1, wherein the lower layer is a non-magnetic layer comprising a non-magnetic powder dispersed in a binder.

11. (original): The magnetic recording medium according to Claim 1, wherein the non-magnetic layer has a thickness of 1.0 to 2.0 μm .

12. (previously presented): The magnetic recording medium according to Claim 1, wherein the ferromagnetic powder is a cobalt-containing ferromagnetic iron oxide or a ferromagnetic alloy powder.

13. (canceled).

14. (previously presented): The magnetic recording medium according to Claim 1, wherein the at least one magnetic layer is a single layer having a thickness of 0.05 to 0.5 μm .

15. (previously presented): The magnetic recording medium according to Claim 1, wherein the at least one magnetic layer is a single layer having a thickness of 0.05 to 0.1 μm .

16. (previously presented): The magnetic recording medium according to Claim 1, wherein the lower layer comprises a non-magnetic powder dispersed in a binder.

17. (previously presented): The magnetic recording medium according to Claim 1, wherein the at least one magnetic layer comprises an antistatic agent.

18. (previously presented): The magnetic recording medium according to Claim 1, wherein the thickness of the radiation-cured layer is 0.3 to 0.7 μm .

19. (previously presented): The magnetic recording medium according to Claim 1, wherein the binder for dispersing the non-magnetic powder and/or the magnetic powder in the lower layer is the same as the binder for dispersing the ferromagnetic powder in the at least one magnetic layer.

20. (previously presented): The magnetic recording medium according to Claim 17, wherein the antistatic agent is carbon black.

21. (new): The magnetic recording medium according to Claim 8, wherein the molecular weight of the difunctional acrylate or methacrylate compound is from 200-600.

22. (new): The magnetic recording medium according to Claim 8, wherein the difunctional acrylate or methacrylate compound is selected from the group consisting of diethylene glycol diacrylate, triethylene glycol diacrylate, dipropylene glycol diacrylate, tripropylene glycol diacrylate, hydrogenated bisphenol A diacrylate, hydrogenated bisphenol A dimethacrylate, tricyclodecane dimethanol diacrylate, tricyclodecane dimethanol dimethacrylate, and 5-ethyl-2-(2-hydroxy-1,1-dimethylethyl)-5-(hydroxymethyl)-1,3-dioxane diacrylate.